

DIRECTORATE OF METROLOGY
PURCHASE DESCRIPTION

1M06 -MLEM-KJ-04
21 July 2005

Gage Block Set, 92

1.0 SCOPE: The item described in this purchase description is for a set of 92 gage blocks. This item will be used in the Air Force Air Logistics Command for the calibration of working gage blocks in the Air Force PMELs.

2.0 COMPONENTS: The gage block set shall consist of 92 gage blocks ranging in size from 0.050 to 4 inches. This set shall come in a hard wood container, with slot to hold each individual gage block. It shall also contain the appropriate accessories.

3.0 SALIENT CHARACTERISTICS: The gage block set shall embody the following salient performance and product characteristics:

3.1 Sizes: The set shall consist of 92 sizes of gage blocks of the following sizes (in):

0.050	0.107	0.129	0.170
0.0625	0.108	0.130	0.180
0.078125	0.109	0.131	0.190
0.09375	0.109375	0.132	0.200
0.100	0.110	0.133	0.250
0.100025	0.111	0.134	0.300
0.10005	0.112	0.135	0.350
0.100075	0.113	0.136	0.400
0.1001	0.114	0.137	0.450
0.1002	0.115	0.138	0.500
0.1003	0.116	0.139	0.550
0.1004	0.117	0.140	0.600
0.1005	0.118	0.141	0.650
0.1006	0.119	0.142	0.700
0.1007	0.120	0.143	0.750
0.1008	0.121	0.144	0.800
0.1009	0.122	0.145	0.850
0.101	0.123	0.146	0.900
0.102	0.124	0.147	0.950
0.103	0.125	0.148	1.000
0.104	0.126	0.149	2.000
0.105	0.127	0.150	3.000
0.106	0.128	0.160	4.000

3.2 Style (Shape): The gage block set shall comply with the square requirements of Federal Specification GGG-G-15c.

3.3 Class and Type (Material): The gage block set shall comply with the steel material requirements of Federal Specification GGG-G-15c.

3.4 Tolerance Grade: The gage block set shall comply with the tolerance requirements of Grade 1 of Federal Specification GGG-G-15c.

3.5 Identification Number: Each gage block shall bear a serial number of the set in which the block is furnished.

3.6 Accessories: The set shall contain the following accessories: tie rods, triangular base, a pair of half round jaws, and a pair of straight jaws.

3.7 Packaging and Packing: The packaging and packing of the gage block set shall be such that no damage is done to the blocks during shipping.

3.8 Cases: Each gage block shall have its one slot in a hardwood case to prevent the gage blocks from damage during shipping. The cases shall have positive latches.

4.0 TESTING: The gage blocks will be inspected and accepted as specified elsewhere in this contract. The item will be checked with test equipment with parameters equal to or better than those required to assure specified performance requirements are met. Test equipment used has first echelon certification directly traceable to National Institute of Standards and Technology (NIST) where required. Test will be performed to assure the item meets the requirements of paragraphs 3.1 through 3.8 of this purchase description. Such testing at destination does not relieve the contractor of performing all inspections and quality checks at the point of fabrication, as is specified elsewhere in the contract, or as is necessary, to assure performance as specified herein.